Lecture 1 - Introduction

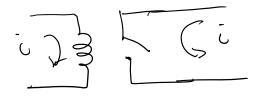
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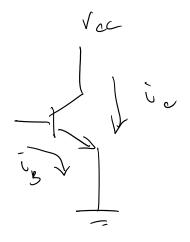
Objectives: - Discuss the course content and administrative details

- Begin the technology evolution discussion

SWITCHING

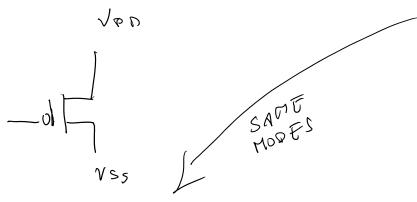


CVERRYT CONTROLLED SWITCH (CURRENT)



CURRENT CONTROLLED WORKNY SWITCH

CUTOFF LINGAR SATURATION



MOSFET

VOLTAGE CONTINUED CURRENT SWITCH

Bipolar Transistor Technologies: Fast but consume a lot of power MOS Transistor Technologies: In early years, the components were slow but consumed little power and had good noise margins. Later CMOS technologies were fast. Power consumption increases with switching speed.